

Fig. 1

A

TREK2 1 MFFLYTDFFLSLVAVPAAAPVCQPKSATNCQPPAPAPTPTPPRLSSSRATTVVARMECTSSQ
 TREK1 1MAAPDLDLPKSAQNS.....KPRLSFTKPTTVLASRVESDT

TREK2 61 GCLQTVNKKWKTVAIFVVVYLVVITGGLVFRALAEQPFESSQKN TIALEKAEFLRDHV C V S
 TREK1 38 - - - - - TINVNKKWKTSTIFLVVVLVYLIICATVFKALEQPHETISQRTTIVQKQTFISQHS C V N
 TRAAK 1 - - - - - MRSTTLLALLALVILYLVSGALVFGALEQPHETISQRTTIVQKQTFISQHS C V S

TREK2 121 PQELET LIQH A D A D N A G V S P I G - - - N S S N S S H W D L G S A F F A G T V I T T I G Y G N I A P S T
 TREK1 96 S T E L D E L I Q Q I V A A I N A C I I P L G - - - N T S N Q I S H W D L G S S F F F A G T V I T T I G Y G N I S P R T
 TRAAK 55 Q K S L E D E F I K L L V E A L C G G A N P E T S W T N S S N S S A W N L G S A F F S G T I T T I G Y G N I V L H T

TREK2 178 E G G K I F C I L Y A L F G I P L F G F L L A G I G D Q L G T I F G K S I A R V E K V F R K K Q V S K T K I R V I S T I
 TREK1 153 E G G K I F C I I Y A L L G I P L F G F L L A G V G D Q L G T I F G K G I A K V E D T F I K W N V S Q T K I R I I S T I
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TREK2 238 L F I L A G C I V F V T T P A V I F K Y I E G W T A L E S I Y F V V V T L T T V G F G D F V A G - G N A C I N Y R E W Y
 TREK1 213 L F I L F G C V L F V A L P A I I F R H I E G W S A L D A I Y F V V T L T T I C F G D Y V A G - G S D - I E Y L D F Y
 TRAAK 175 L F L L I G C L L F V L T P T F V F S Y M E S W S K L E A I Y F V T V T L T T V G F G D Y V P G D G T G - - Q N S P A Y

TREK2 297 K P L V W F W I L V G L A Y F A A V L S M I G D W L R V L S K K T K E E V G E I K A H A A E W K A N V T A E F R E T R R
 TREK1 271 K P V V W F W I L V G L A Y F A A V L S M I G D W L R V T S K K T K E E V G E F R A H A A E W T A N V T A E F K E T R R
 TRAAK 233 Q P L V W F W I L F G L A Y F A S V L T I G N W L R A V S R R T R A E M G G L T A Q A A S W I G T V T A R V T O - R T

TREK2 357 R L S V E I H D K L Q R A A T I R S M E R R R L G L D Q R A H S L D M L S P E K R S V F A A L D T G R F K A S S Q E - -
 TREK1 331 R L S V E I Y D K F Q R A T S I K - - - - R K L S A E L A G N H N Q E L T P C R R T L S V N H L I T N E R D V L P P - - -
 TRAAK 292 C P S A P P E K E Q P L L P S S L P - - A P P A V E P A C R P G S P A P A E K V E T P S P P T A S A L D Y P S E N L

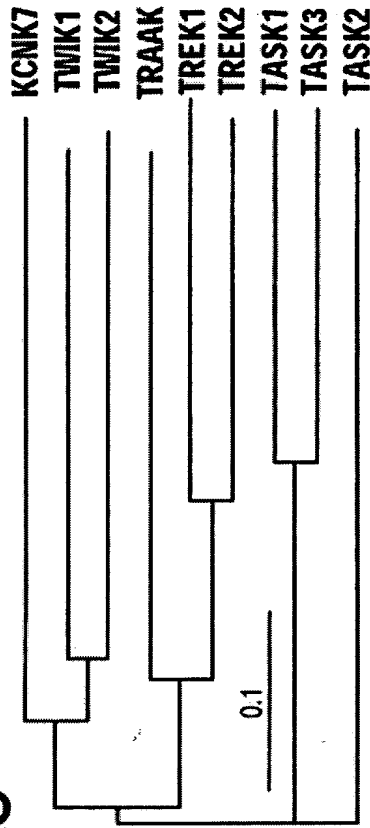
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 TREK1 384 - - - L L K T E S I Y L N G - - - L T P H C A G E E I A V I E N I K - - - - -
 TRAAK 350 A F I D E S S D T Q S E R G - C A L P R A P R G R G P N P S K K P S R P R C P C R L R D K A V P V - - - - -

TREK2 474 K T F R N Y S L D E E K K E E E T E K M C N S D N S T A M L T D C I Q Q H A E L E N G M I P T D T K D R E P E N N S L
 TREK2 534 L E D R N

B

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 Intron 3: AG/gtacc....~13.2kb....catatttctcaccag/GG
 Intron 4: CA/gtgag.....~35kb.....ctttgctcttcctag/AA
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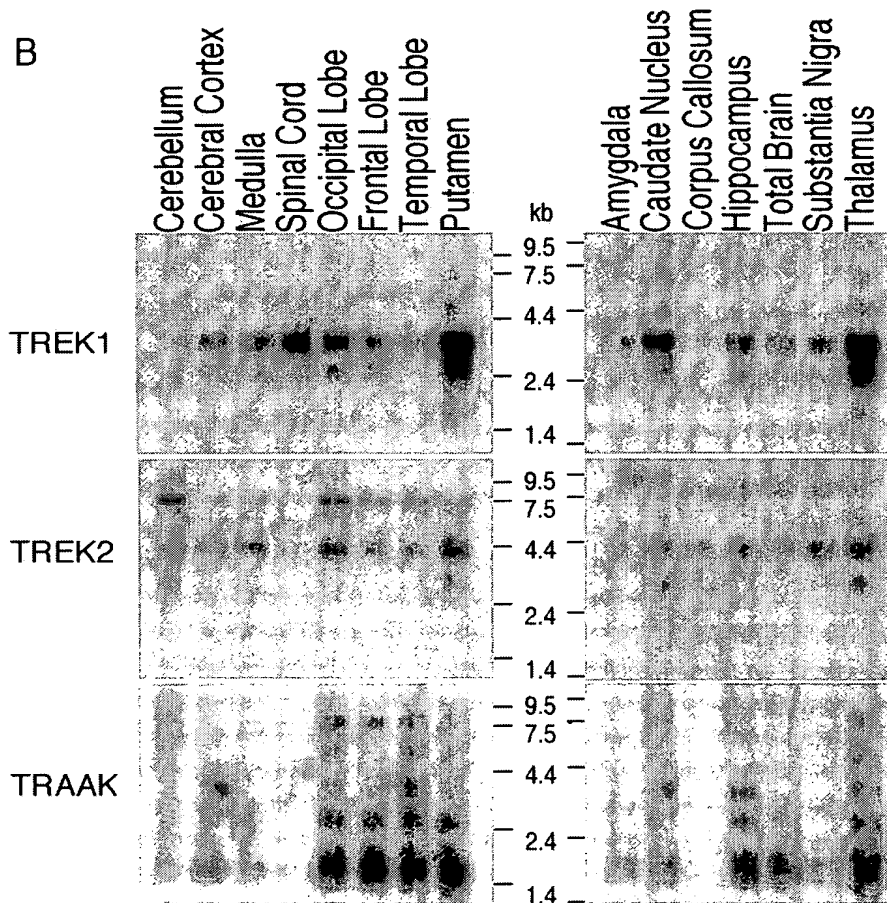
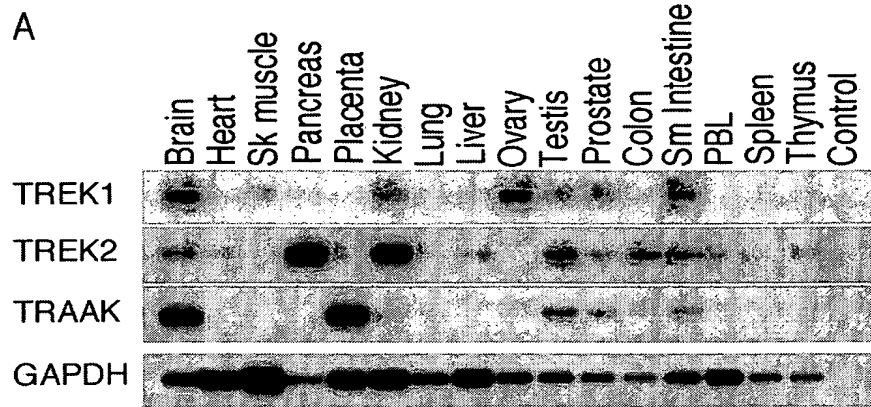
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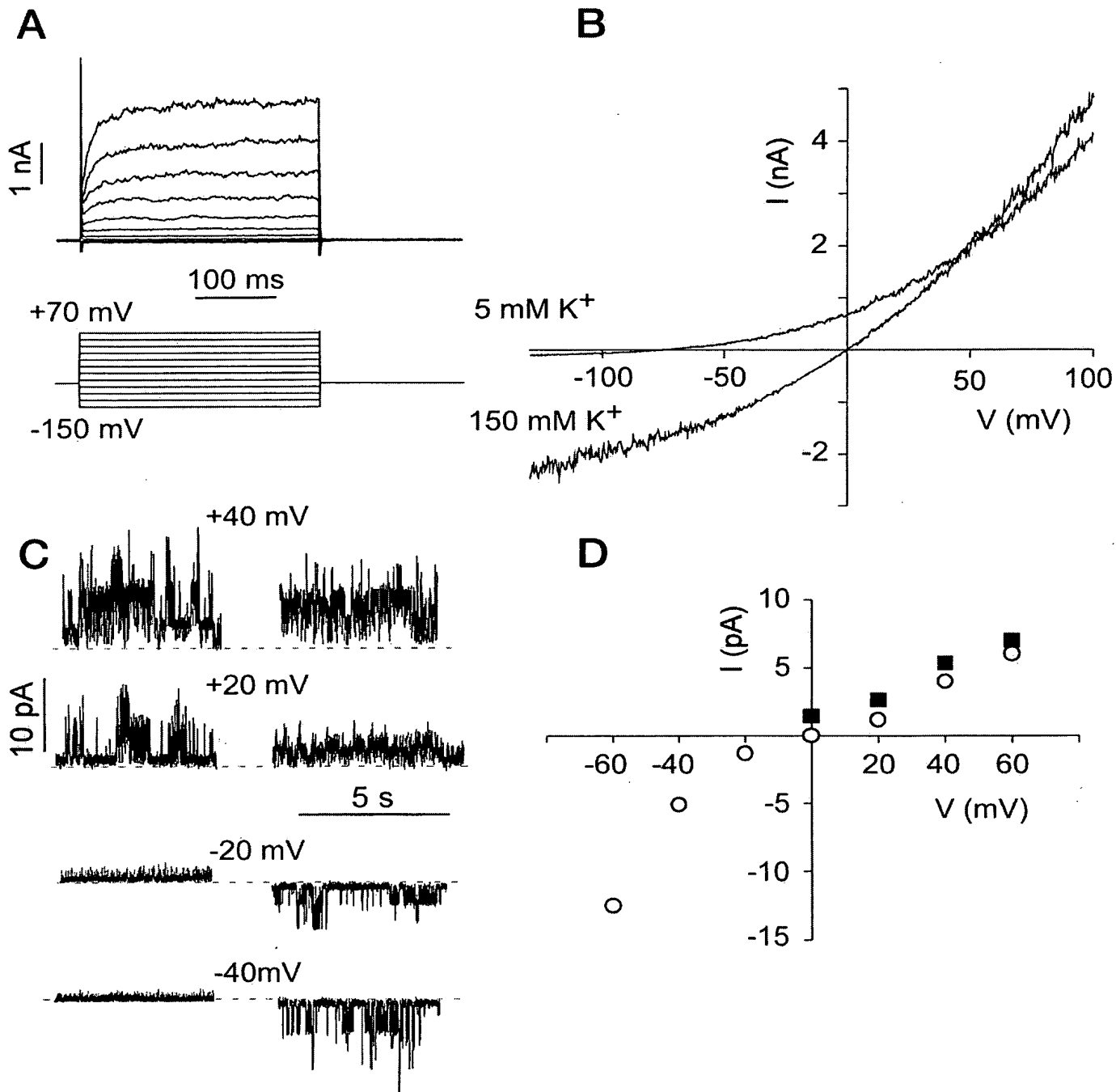
Fig. 2





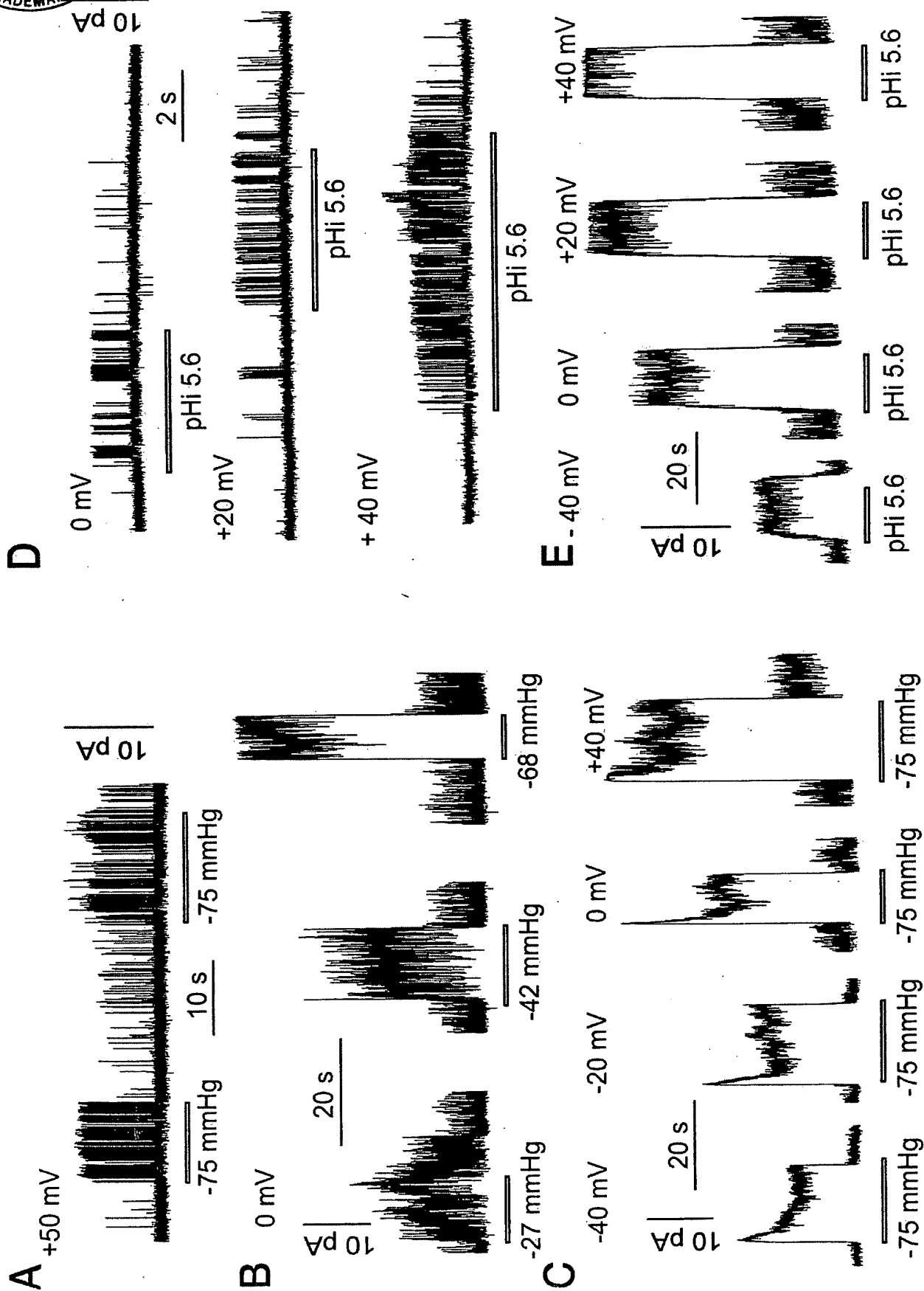
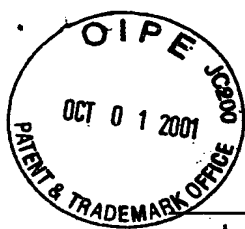
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Fig. 3



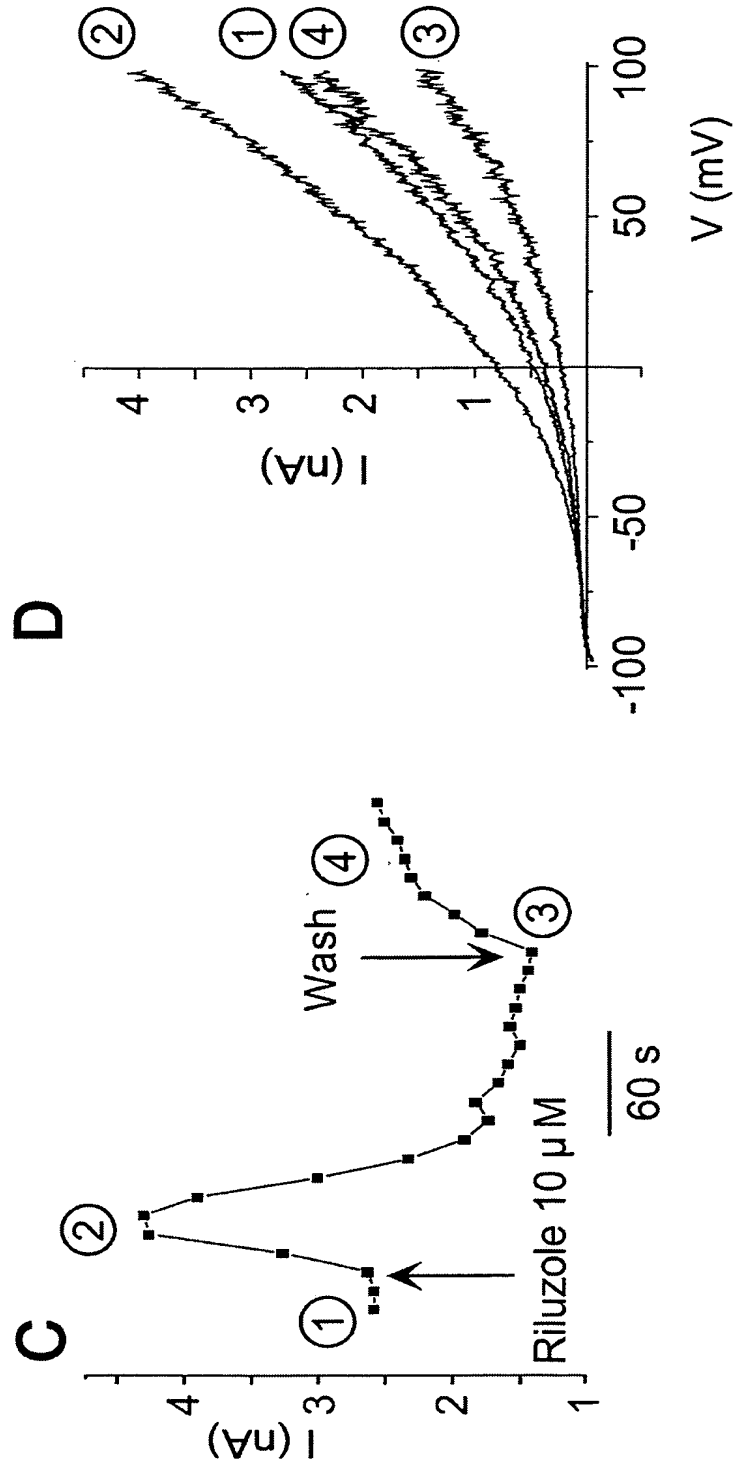
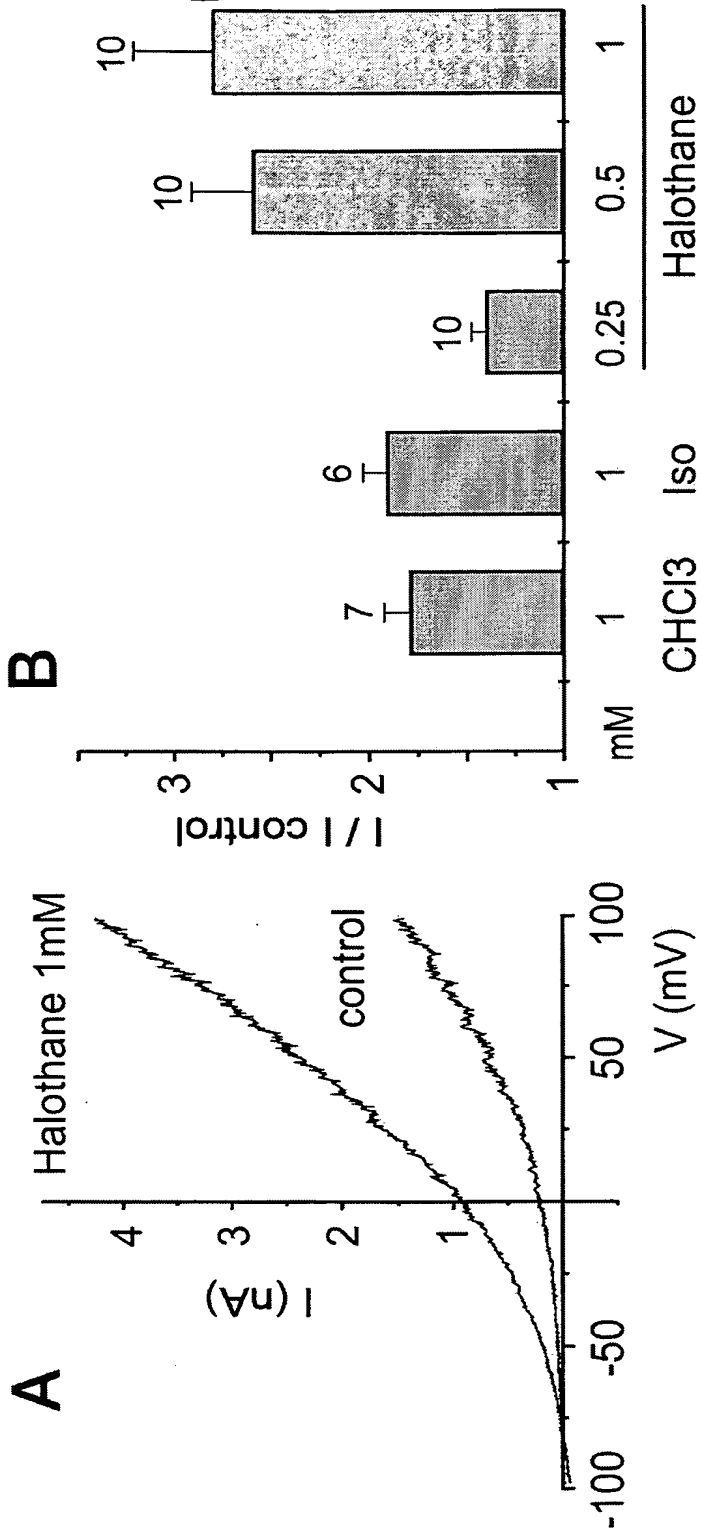
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Fig. 4



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Fig. 5



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Fig. 6

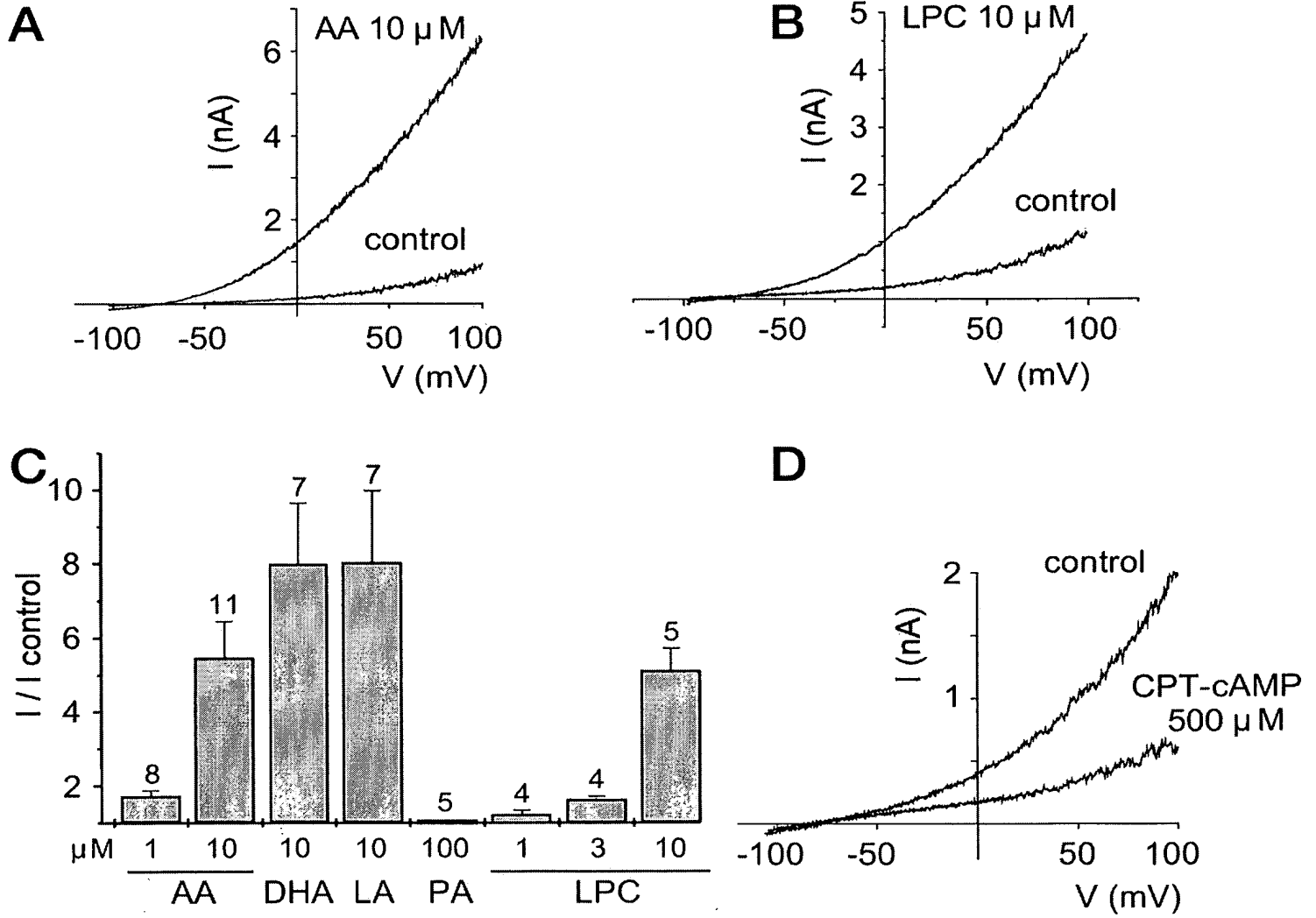


Fig. 7

